

LED Intelligent Driver

0.54~25W 180~700mA 3~54V

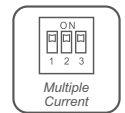
- Dimming interface: Triac/ELV.
- Apply to leading edge and trailing edge Triac dimmers.
- Built-in high performance MCU, dimming curve can be customized.
- PWM digital dimming, no alter LED color rendering index.
- Dimming range: Max. 0.1~100%.
- Multiple current, wide voltage, compatible with a variety of LED lights.
- Efficiency > 85%.
- Short circuit / Over-heat / Over load protection.
- Class 2 power supply. Full protective plastic housing.
- Compliant with Safety Extra Low Voltage standard.
- Suitable for indoor environments.



SELV



RoHS



Main Characteristics

Dimming Interface:	Triac/ELV								Current Accuracy:	±3%	
Input Voltage Range:	200-240Vac ±10%								No Load Output Voltage:	58Vdc	
Frequency:	50/60Hz								PWM Frequency:	300Hz	
Input Current:	230Vac≤0.28A								Dimming Range:	Max. 0.1~100%.	
Efficiency:	>85%								Working Temperature:	tc: 80°C ta: -30°C ~ 55°C	
Inrush Current[typ.]:	Cold start 40A at 230Vac								Working Humidity:	20 ~ 95%RH, non-condensing	
Control Surge Capability:	L-N: 1kV								Storage Temp., Humidity:	-40 ~ 80°C, 10~95%RH	
Leakage Current:	<0.5mA/230Vac								Temp. Coefficient:	±0.03%/°C(0-50°C)	
Operating Voltage:	3-54Vdc								Vibration:	10~500Hz, 2G 12min./1 cycle, period for 72min. each along X, Y, Z axes.	
Output Power Range:	0.54W~25W										
Output Current :	180mA	250mA	350mA	400mA	500mA	550mA	600mA	700mA			
Output Voltage :	3-54V	3-54V	3-54V	3-54V	3-50V	3-46V	3-42V	3-36V			
Output Power :	0.5W-9.7W	0.8W-13.5W	1.1W-18.9W	1.2W-21.6W	1.5W-25W	1.7-25.3W	1.8-25.2W	2.1-25.2W			

* The dimming range parameters adopted LUTRON® dimming system as testing standards. The parameters may differ by using Triac/ELV dimming systems of different brands. We can customize program for clients' high requirements.

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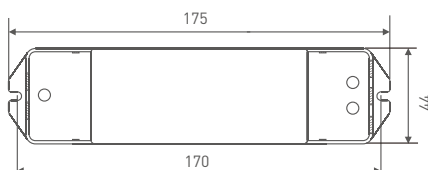
Protection

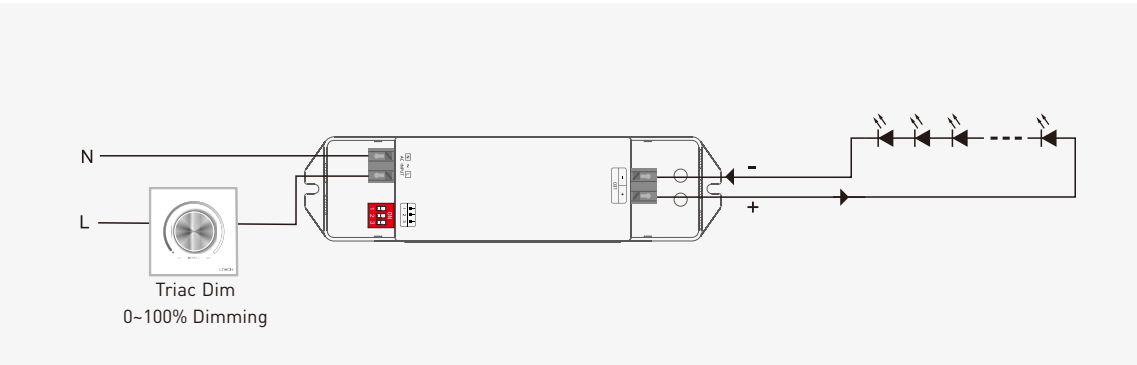
- Over-heat Protection: Shut down the output when PCB temp. ≥ 110°C, auto recovers when temp. back to normal.
- Over Load Protection: o/p current declines when Power Load ≥ 102% ~ 125%, auto recovers when the load is reduced.
- Short Circuit Protection: Shut down automatically if short circuit occurs, auto recovers after faulty condition is removed.

Others

- Dimension: 175×44×30mm(L×W×H)
- Packing: 178×48×33mm(L×W×H)
- Weight(G.W.): 160g±10g

Dimensions





LED Current Selection

The current can be easily configured by choosing the correct combination of the DIP switches (see the table below).

180mA/ISET	250mA	350mA	400mA	500mA	550mA	600mA	700mA	ON	OFF		
3-54V	3-54V	3-54V	3-54V	3-50V	3-46V	3-42V	3-36V				

* After current setting by DIP switch, power off and then power on to make the new current effective.

* E.g. LED 3.2V/pcs:
3-54V can power 1-16pcs LEDs in series, 3-36V can power 1-11pcs LEDs in series, the maximum quantity of LEDs in series will be subject to the actual voltage of LED.